

# Appendix B.7

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant41

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.07	15.15	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.12	15.20	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.00	15.08	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.09	14.17	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.23	15.31	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.99	15.07	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.95	15.03	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.87	13.95	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.12	15.20	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.87	14.95	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.00	15.08	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.87	13.95	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.59	14.67	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.13	14.21	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.13	14.21	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.14	13.22	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.10	14.18	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.11	14.19	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.10	14.18	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.98	13.06	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.05	14.13	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.15	14.23	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.09	14.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.91	12.99	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.48	13.56	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.43	13.51	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#5	22.20	13.28	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	21.10	12.18	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.08	13.16	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.15	13.23	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.37	13.45	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.03	12.11	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.08	13.16	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.04	13.12	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.07	13.15	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.99	12.07	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	19.16	10.24	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	19.17	10.25	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	19.19	10.27	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	19.17	10.25	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	19.04	10.12	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	19.10	10.18	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	19.06	10.14	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	18.98	10.06	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	19.02	10.10	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	19.06	10.14	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	19.03	10.11	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	19.00	10.08	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.08	15.16	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.15	15.23	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.99	15.07	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.15	14.23	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.26	15.34	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.13	15.21	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.95	15.03	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.96	14.04	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.13	15.21	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.00	15.08	34.77	PASS



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Band12	3MHz	QPSK	23165	1RB#14	23.85	14.93	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.88	13.96	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.34	14.42	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.26	14.34	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.21	14.29	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.17	13.25	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.06	14.14	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.08	14.16	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.11	14.19	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.94	13.02	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.99	14.07	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.14	14.22	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.90	13.98	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.93	13.01	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.27	13.35	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.20	13.28	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.21	13.29	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.17	12.25	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.08	13.16	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.14	13.22	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.17	13.25	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.95	12.03	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.01	13.09	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.17	13.25	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.00	13.08	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.85	11.93	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	19.35	10.43	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	19.21	10.29	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	19.10	10.18	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	19.11	10.19	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	19.03	10.11	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	19.31	10.39	34.77	PASS



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Band12	3MHz	256QAM	23095	1RB#14	19.19	10.27	34.77	PASS
Band12	3MHz	256QAM	23095	15RB#0	18.96	10.04	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	18.97	10.05	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	19.04	10.12	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	19.05	10.13	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	18.92	10.00	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.06	15.14	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.08	15.16	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.00	15.08	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.09	14.17	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.25	15.33	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.08	15.16	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.04	15.12	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.99	14.07	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.15	15.23	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.99	15.07	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.97	15.05	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.86	13.94	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.39	14.47	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.20	14.28	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.07	14.15	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.10	13.18	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.33	14.41	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.23	14.31	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.12	14.20	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.04	13.12	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.19	14.27	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.20	14.28	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.13	14.21	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.97	13.05	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.20	13.28	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.23	13.31	34.77	PASS



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Band12	5MHz	64QAM	23035	25RB#0	21.11	12.19	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.27	13.35	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.19	13.27	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.22	13.30	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.02	12.10	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.15	13.23	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.38	13.46	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.09	13.17	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.88	11.96	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	19.18	10.26	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	19.29	10.37	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	19.15	10.23	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	19.14	10.22	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	18.98	10.06	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	19.14	10.22	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	19.14	10.22	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	18.94	10.02	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	19.05	10.13	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	18.98	10.06	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	19.03	10.11	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	18.95	10.03	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.18	15.26	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.12	15.20	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.05	15.13	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.14	14.22	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.28	15.36	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.11	15.19	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.88	14.96	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.02	14.10	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.23	15.31	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.03	15.11	34.77	PASS



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Band12	10MHz	QPSK	23130	1RB#49	23.97	15.05	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.04	14.12	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.41	14.49	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.23	14.31	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.13	14.21	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.06	13.14	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.07	14.15	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.08	14.16	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.23	14.31	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.07	13.15	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.23	14.31	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.18	14.26	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.92	14.00	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.05	13.13	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.20	13.28	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.24	13.32	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.24	13.32	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.15	12.23	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.27	13.35	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.07	13.15	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.18	13.26	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.97	12.05	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.35	13.43	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.18	13.26	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.10	13.18	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.04	12.12	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	19.15	10.23	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	19.28	10.36	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	19.08	10.16	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	19.09	10.17	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	19.18	10.26	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	19.16	10.24	34.77	PASS



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Band12	10MHz	256QAM	23095	1RB#49	18.91	9.99	34.77	PASS
Band12	10MHz	256QAM	23095	50RB#0	19.02	10.10	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	18.97	10.05	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	19.11	10.19	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	19.10	10.18	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	19.04	10.12	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.20	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.08	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.14	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.14	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.60	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.64	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.92	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.96	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.90	13	PASS



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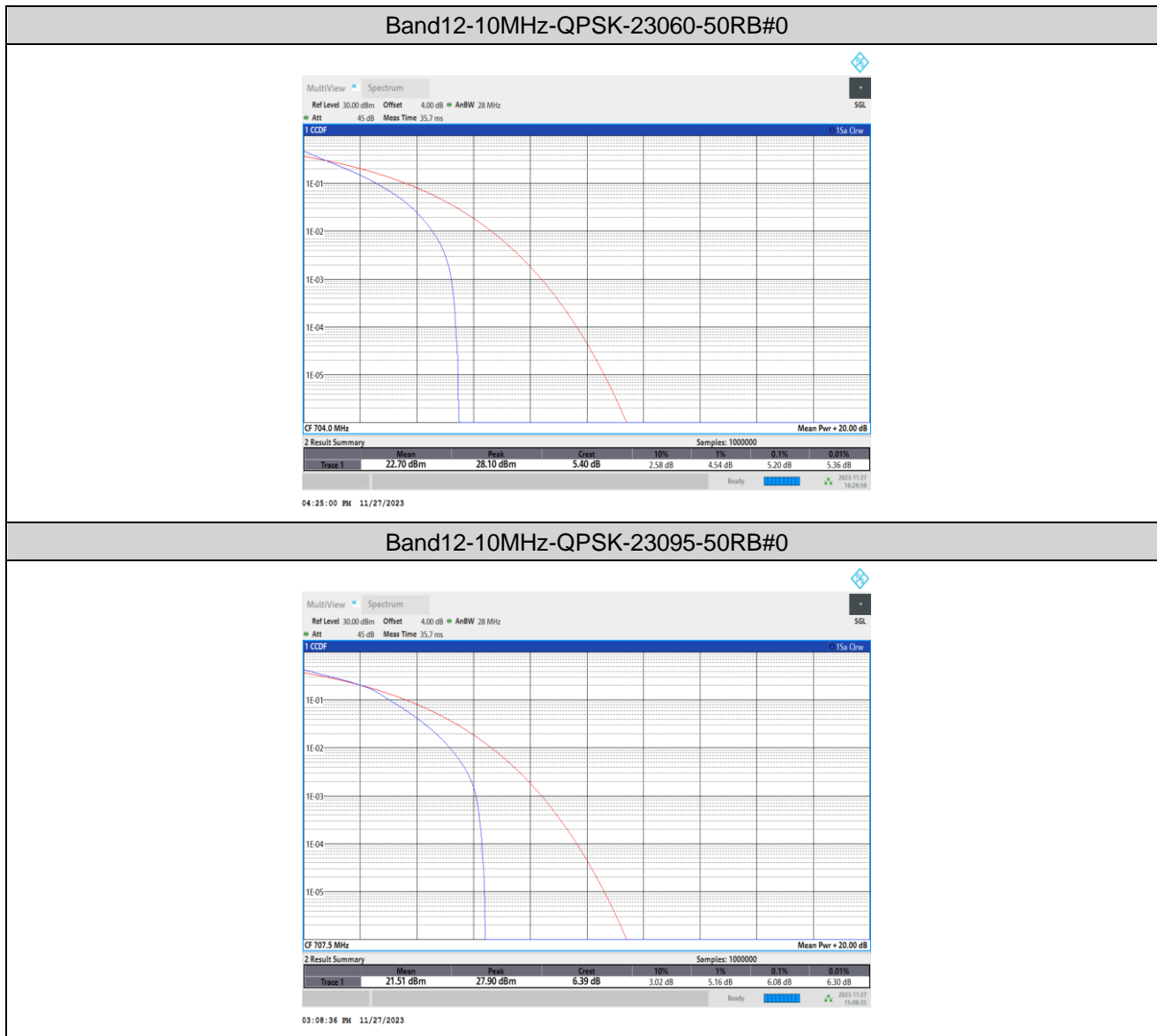
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Test Graphs

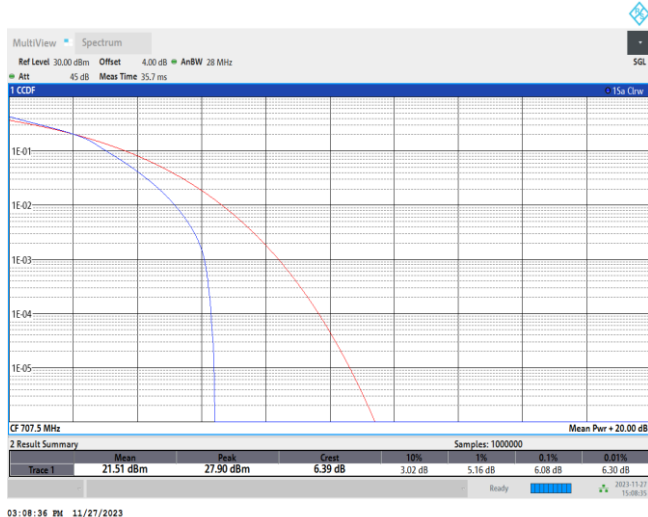


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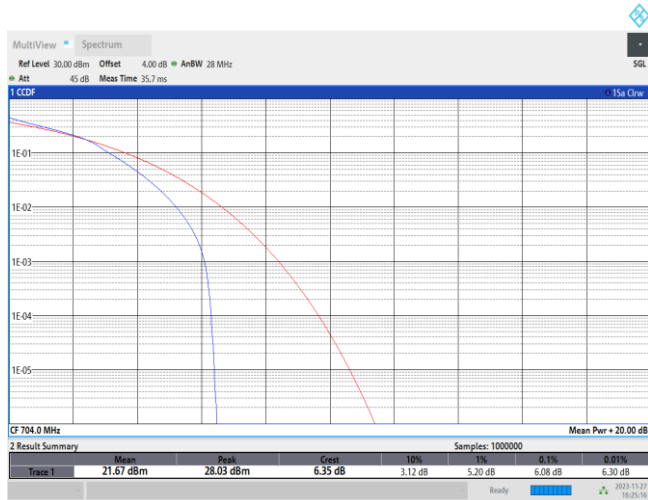
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Band12-10MHz-QPSK-23130-50RB#0



03:08:36 PM 11/27/2023

Band12-10MHz-16QAM-23060-50RB#0



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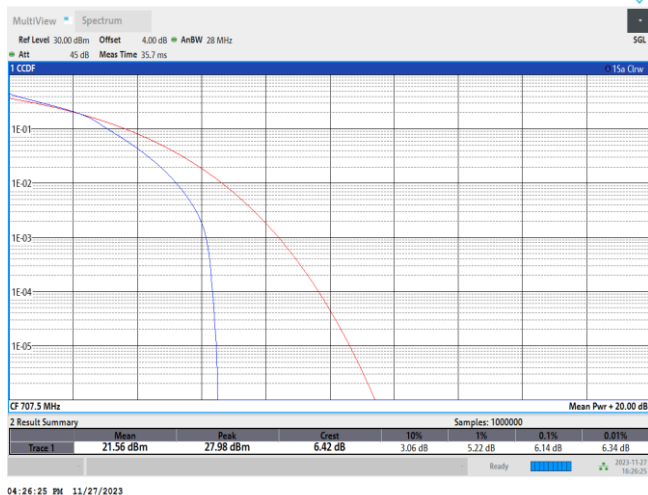


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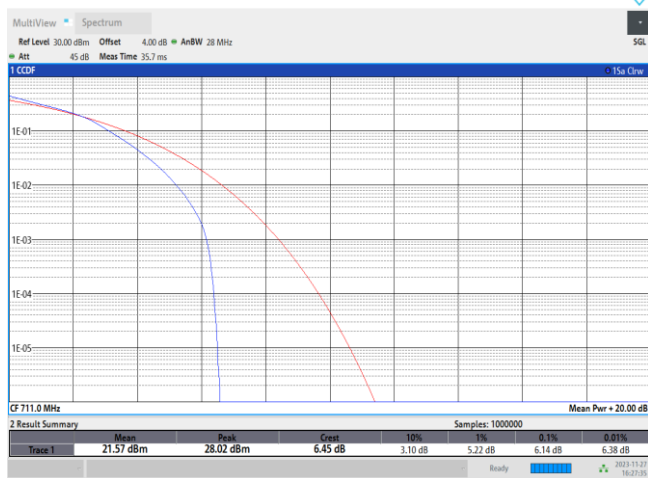
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Band12-10MHz-16QAM-23095-50RB#0



04:26:25 PM 11/27/2023

Band12-10MHz-16QAM-23130-50RB#0



04:27:36 PM 11/27/2023



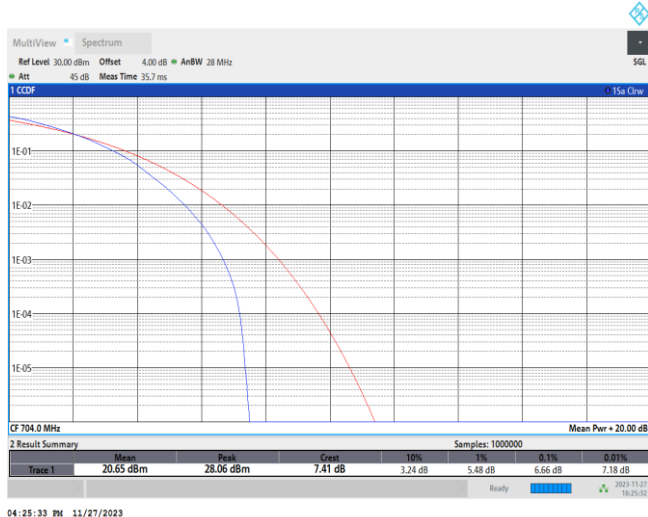
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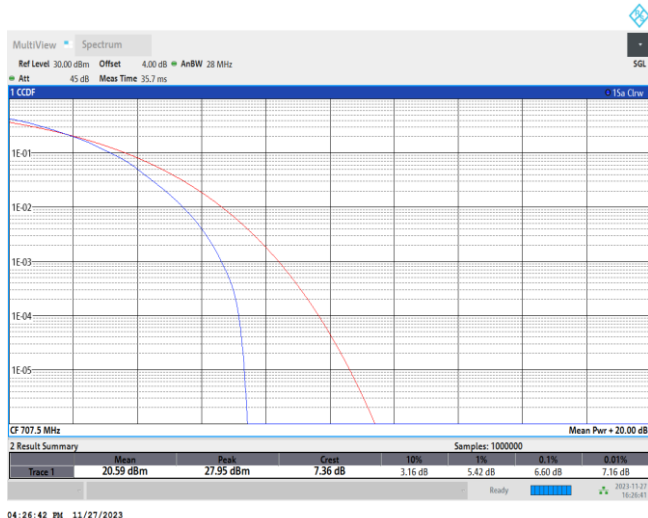


Band12-10MHz-64QAM-23060-50RB#0



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Band12-10MHz-64QAM-23095-50RB#0



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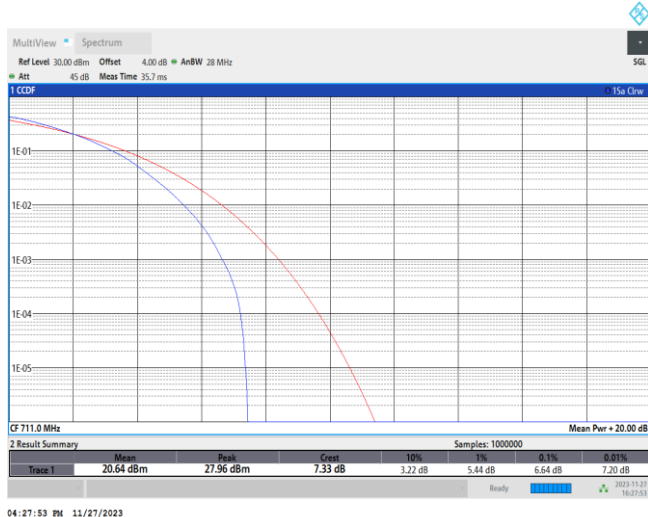


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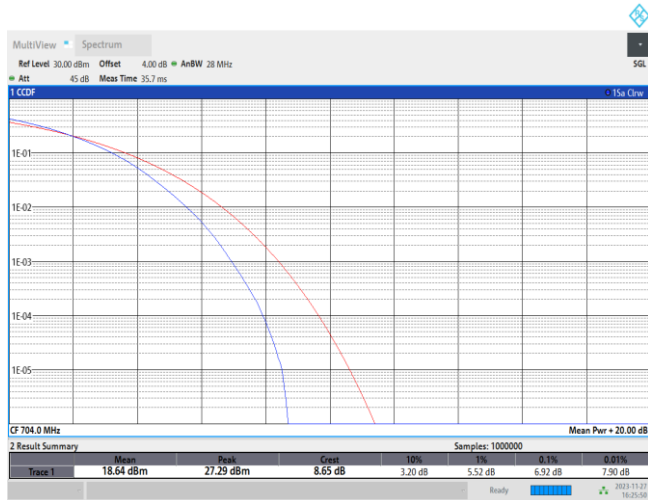
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Band12-10MHz-64QAM-23130-50RB#0



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Band12-10MHz-256QAM-23060-50RB#0



04:25:50 PM 11/27/2023

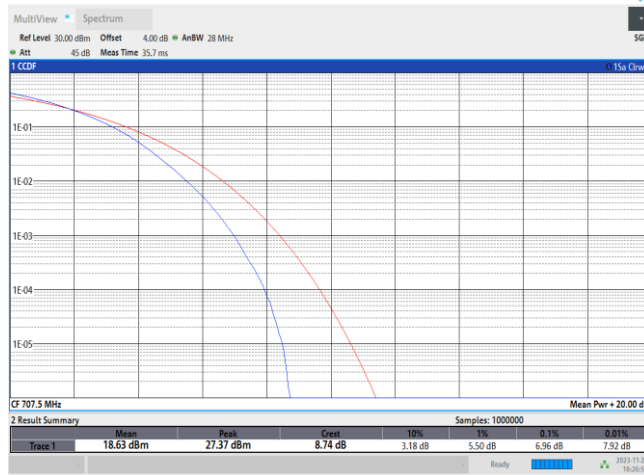


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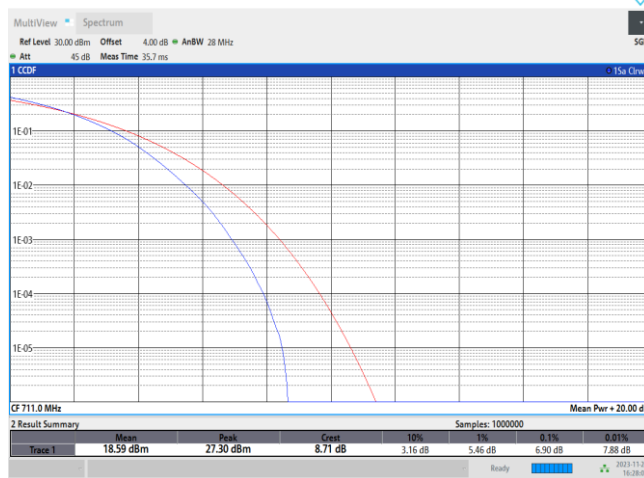
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Band12-10MHz-256QAM-23095-50RB#0



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Band12-10MHz-256QAM-23130-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.25	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1	1.35	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.093	1.24	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.093	1.31	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.689	2.94	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.699	2.99	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.69	2.92	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.705	3.02	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.47	4.93	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.89	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.466	4.88	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.461	4.95	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.963	9.58	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9	9.50	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.919	9.76	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.897	9.42	PASS



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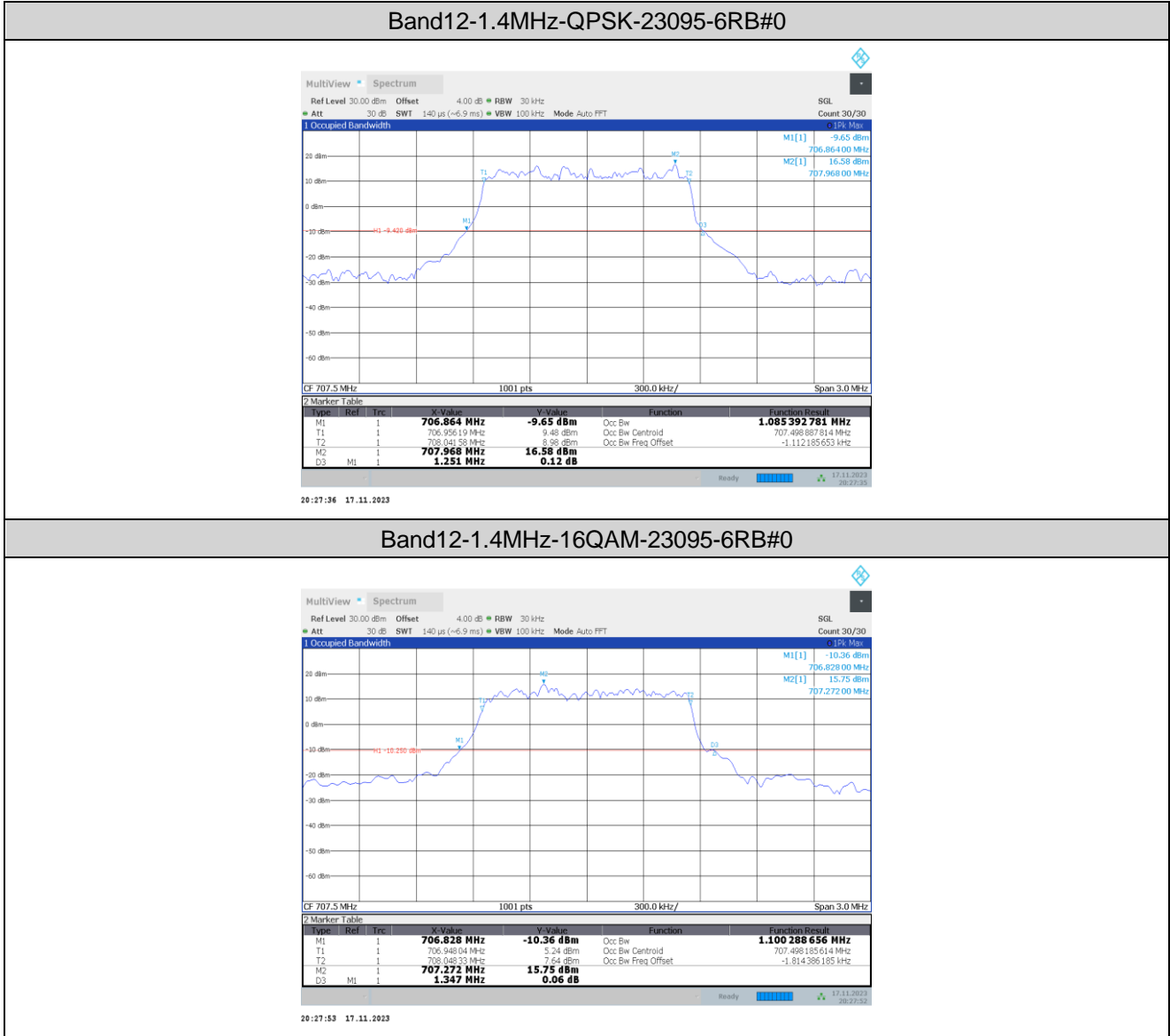
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Test Graphs

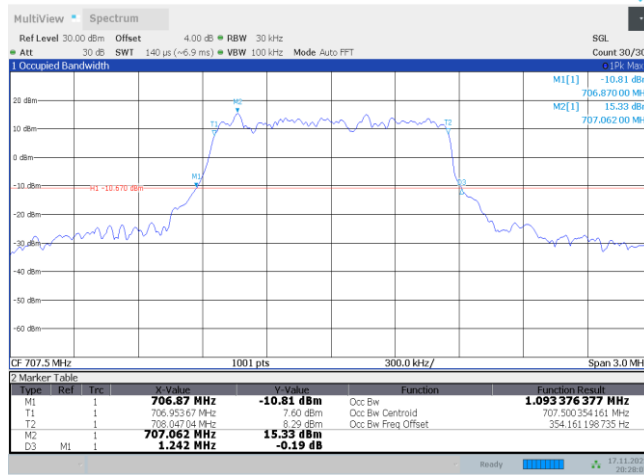


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Band12-1.4MHz-64QAM-23095-6RB#0



20:28:08 17.11.2023

Band12-1.4MHz-256QAM-23095-6RB#0



20:28:23 17.11.2023

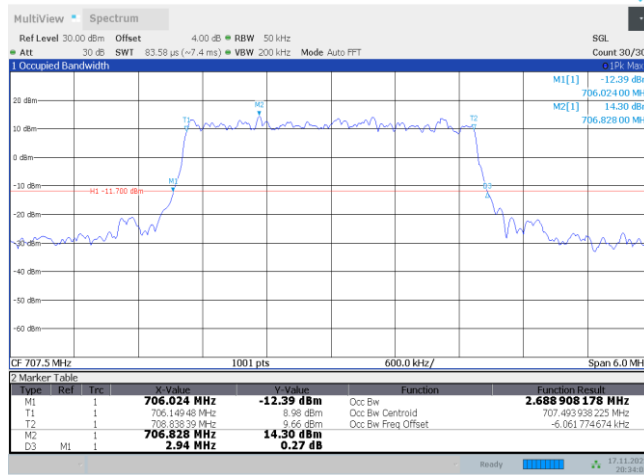


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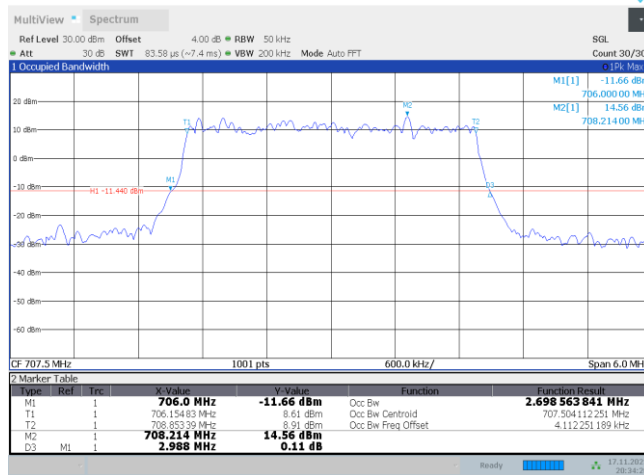
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Band12-3MHz-QPSK-23095-15RB#0



20:34:06 17.11.2023

Band12-3MHz-16QAM-23095-15RB#0



20:34:21 17.11.2023

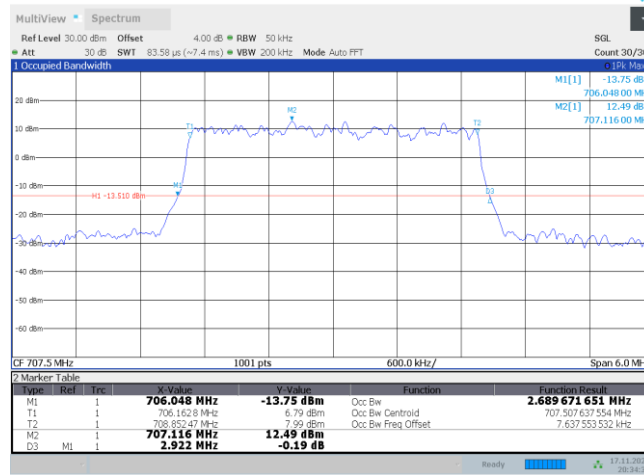


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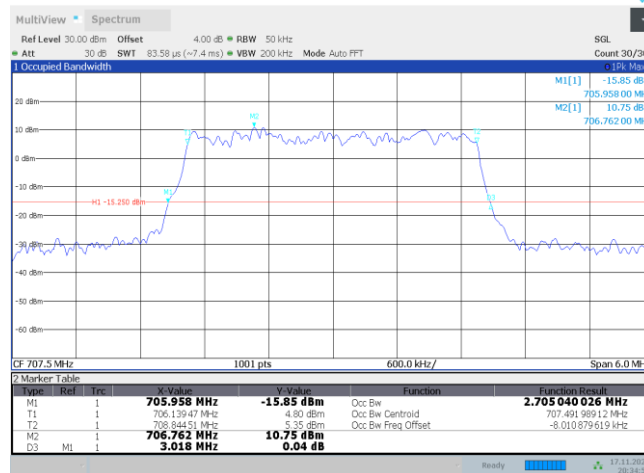
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Band12-3MHz-64QAM-23095-15RB#0



20:34:36 17.11.2023

Band12-3MHz-256QAM-23095-15RB#0



20:34:51 17.11.2023



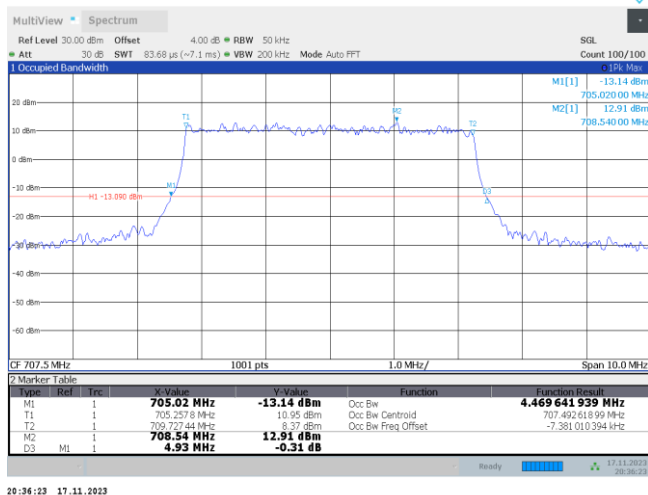
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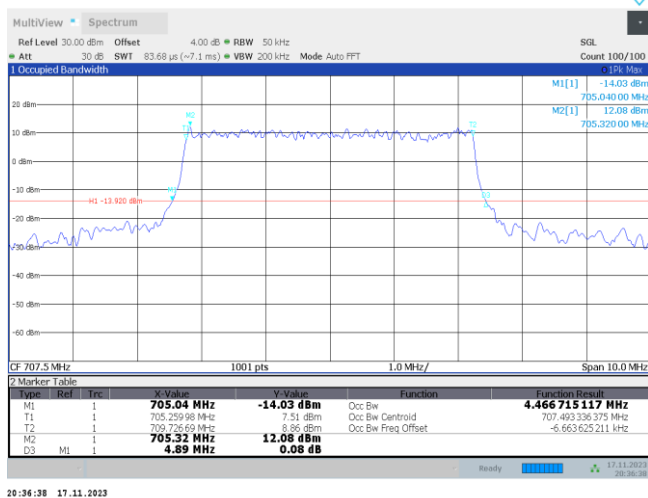
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Band12-5MHz-QPSK-23095-25RB#0



Band12-5MHz-16QAM-23095-25RB#0

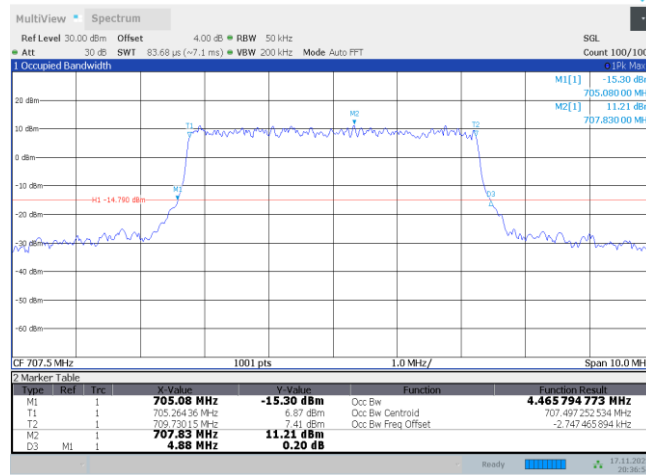


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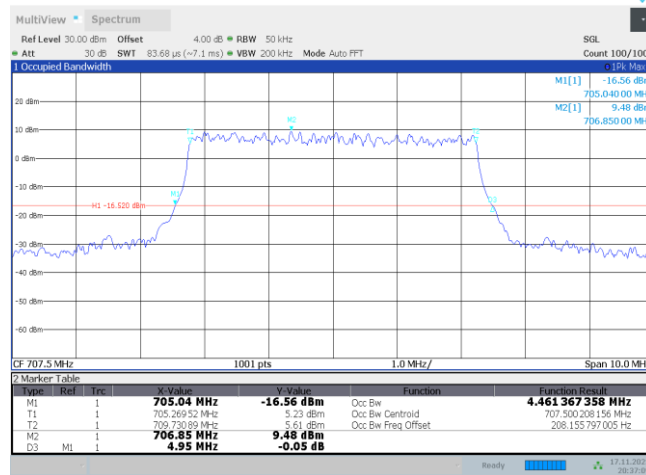
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Band12-5MHz-64QAM-23095-25RB#0



20:34:54 17.11.2023

Band12-5MHz-256QAM-23095-25RB#0



20:37:09 17.11.2023

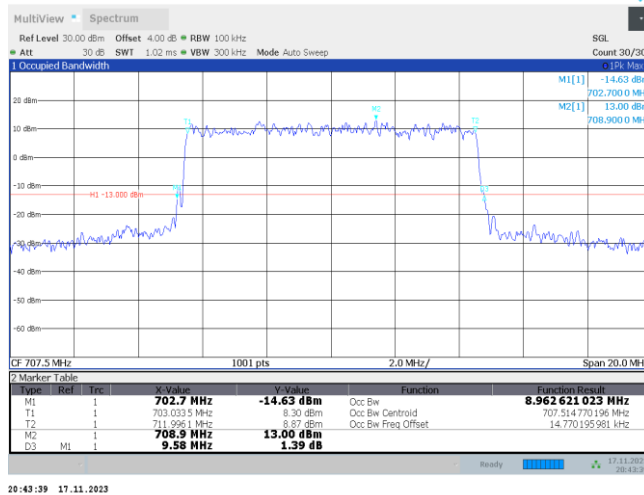


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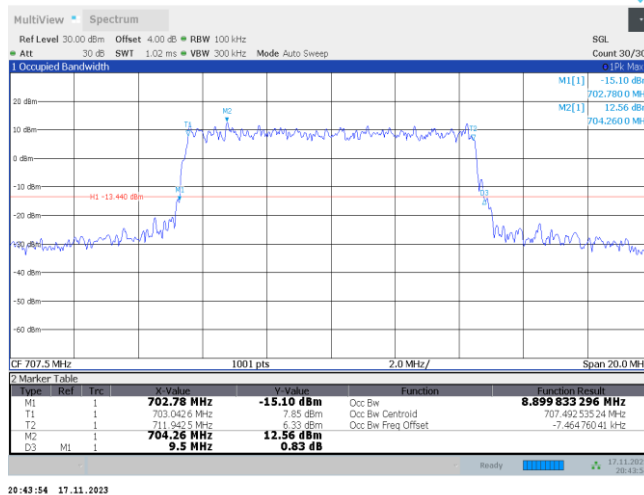
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Band12-10MHz-QPSK-23095-50RB#0



Band12-10MHz-16QAM-23095-50RB#0

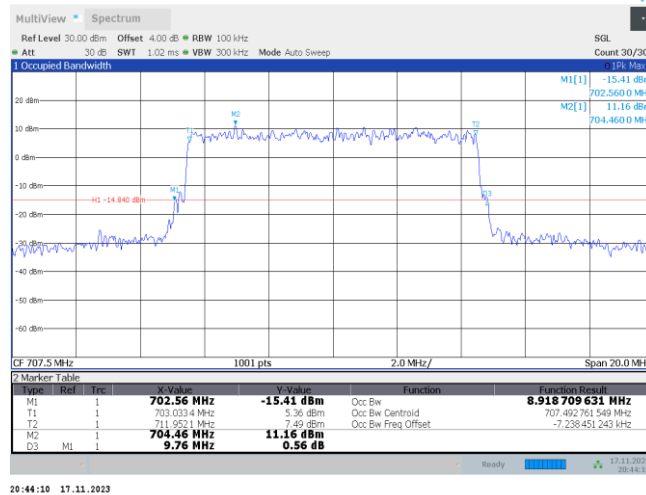


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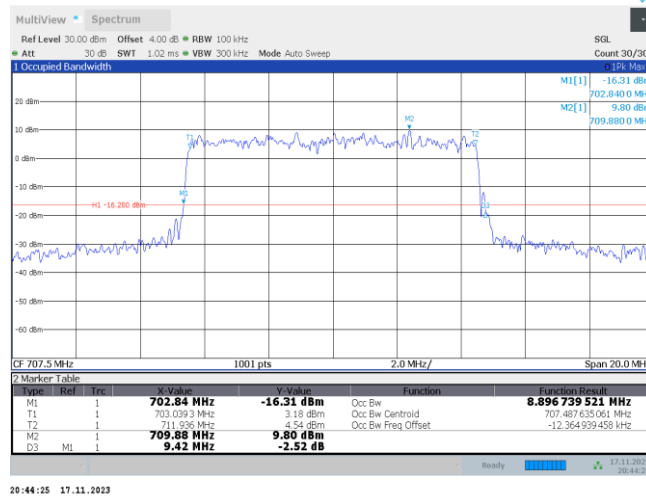
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Band12-10MHz-64QAM-23095-50RB#0



Band12-10MHz-256QAM-23095-50RB#0



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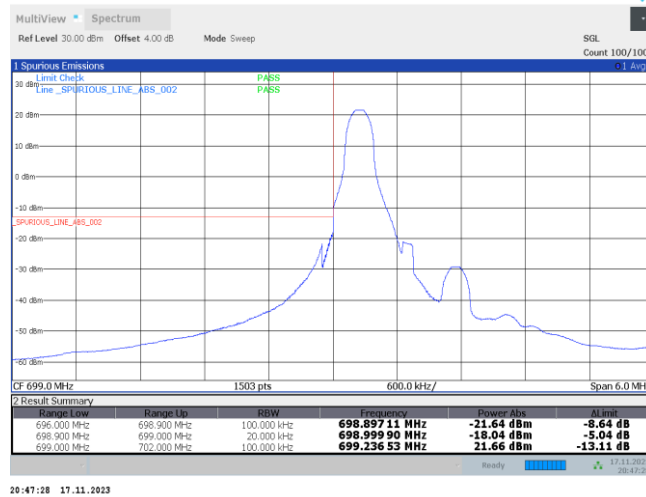
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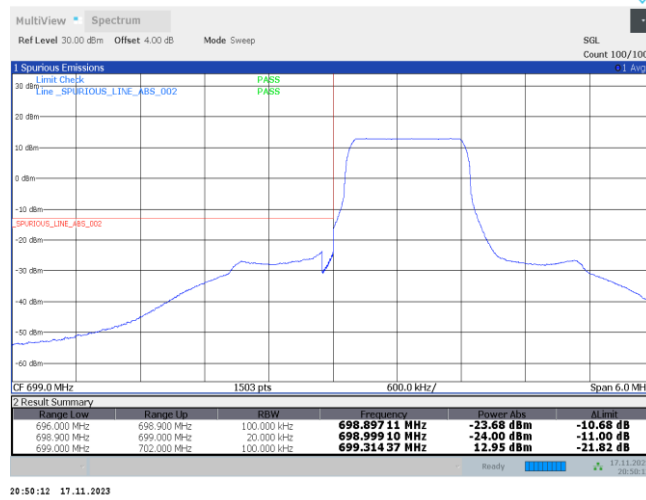
## Band Edge

## Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0



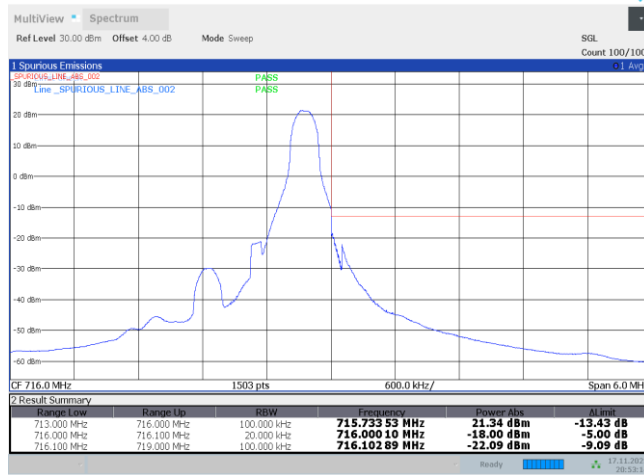
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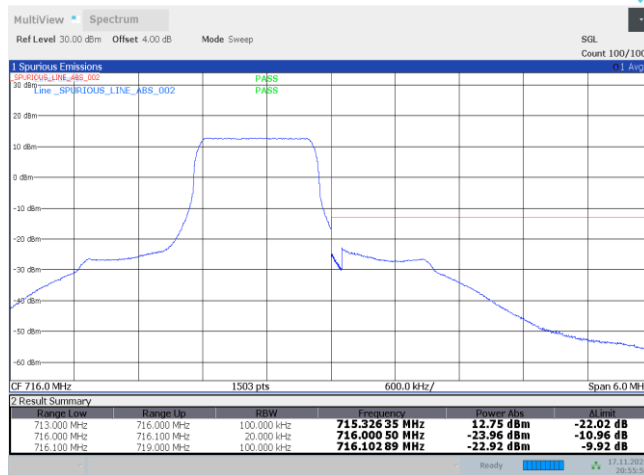


Band12-1.4MHz-QPSK-23173-1RB#5



20:53:14 17.11.2023

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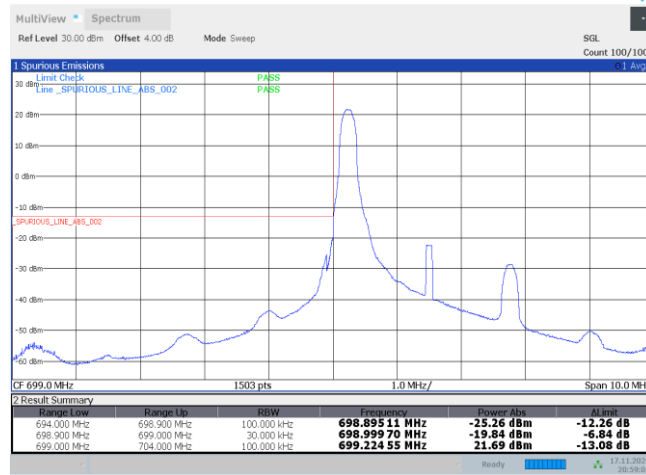


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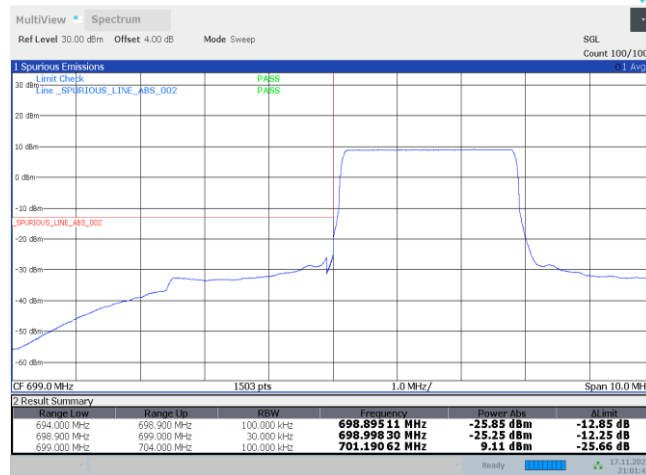
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Band12-3MHz-QPSK-23025-1RB#0



20:59:01 17.11.2023

Band12-3MHz-QPSK-23025-15RB#0



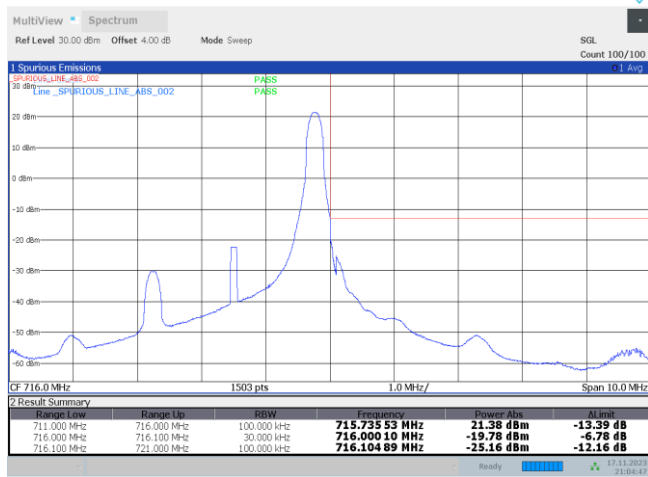
21:01:46 17.11.2023



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Band12-3MHz-QPSK-23165-1RB#14



21:04:48 17.11.2023

Band12-3MHz-QPSK-23165-15RB#0



21:07:32 17.11.2023

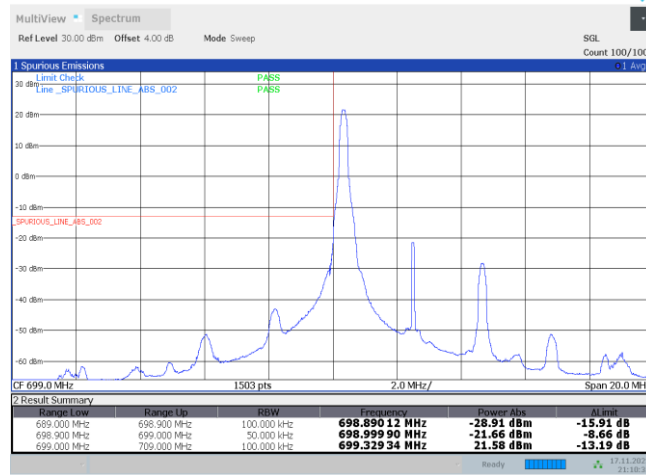


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Band12-5MHz-QPSK-23035-1RB#0



21:10:35 17.11.2023

Band12-5MHz-QPSK-23035-25RB#0



21:13:19 17.11.2023

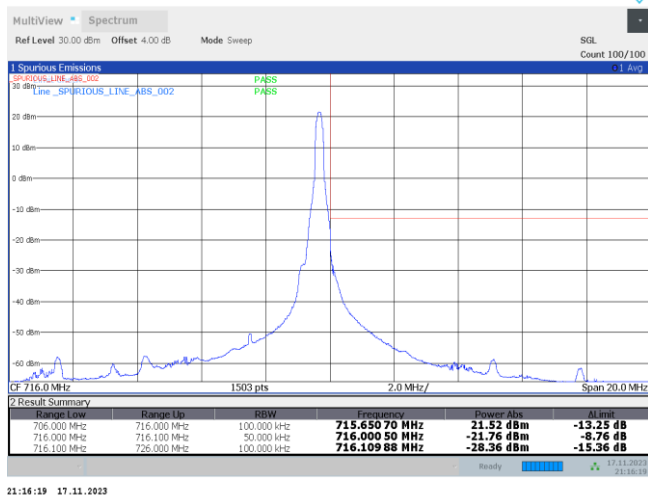


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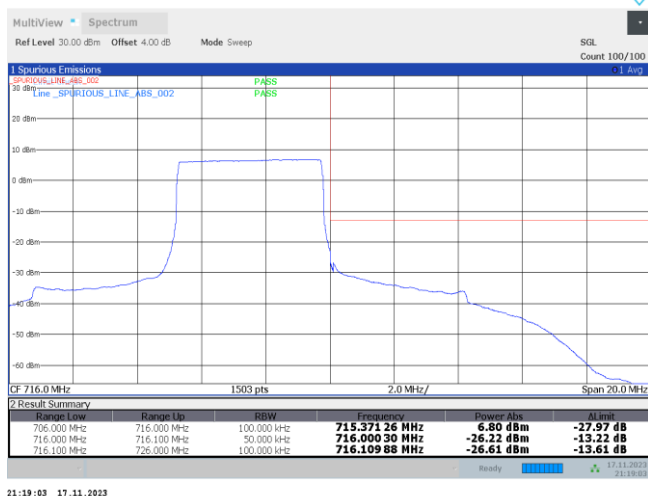
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Band12-5MHz-QPSK-23155-1RB#24



21:14:19 17.11.2023

Band12-5MHz-QPSK-23155-25RB#0



21:19:03 17.11.2023



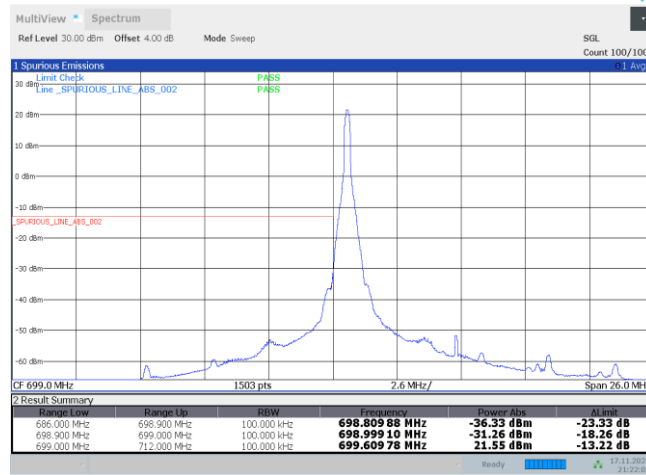
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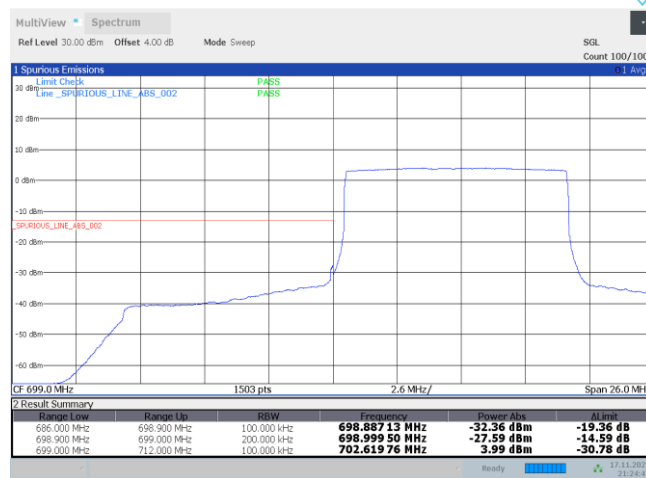
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Band12-10MHz-QPSK-23060-1RB#0



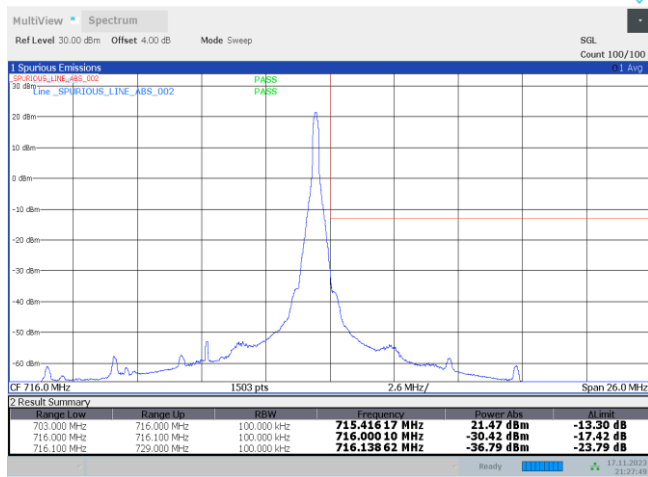
Band12-10MHz-QPSK-23060-50RB#0



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Band12-10MHz-QPSK-23130-1RB#49



21:27:50 17.11.2023

Band12-10MHz-QPSK-23130-50RB#0



21:30:34 17.11.2023



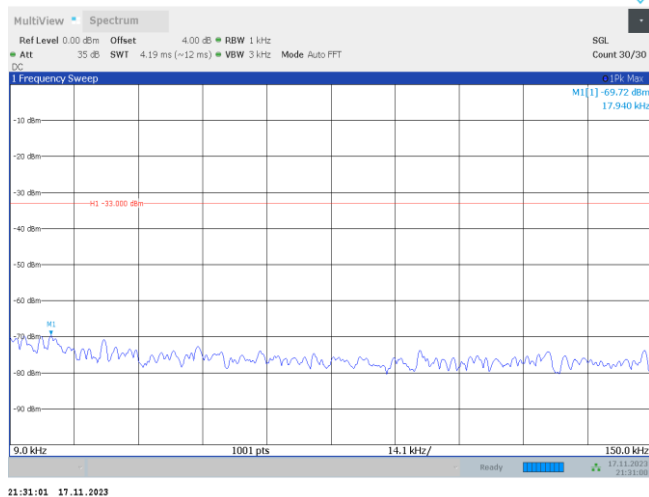
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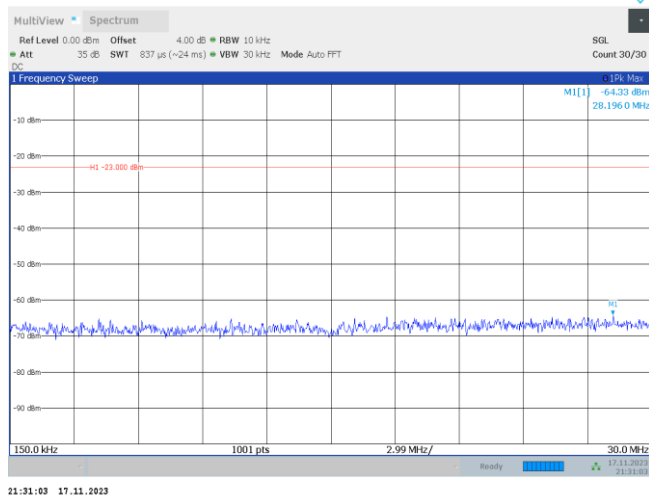
## Conducted Spurious Emission

### Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



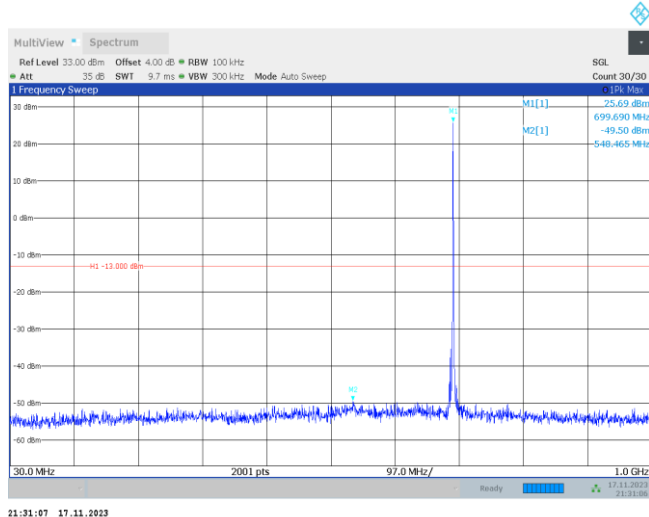
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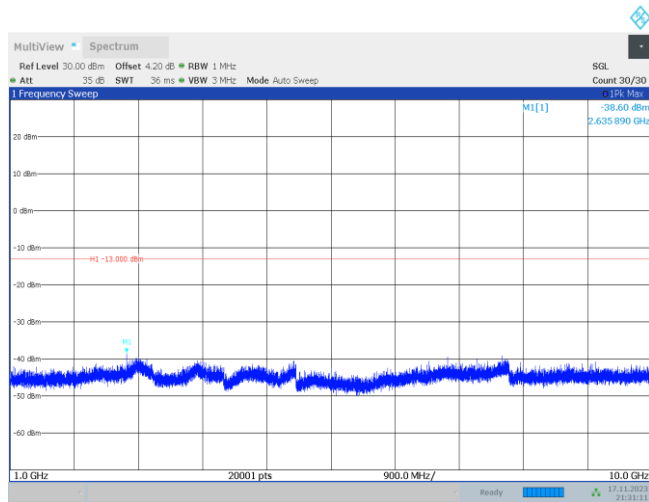
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



21:31:07 17.11.2023

Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



21:31:11 17.11.2023

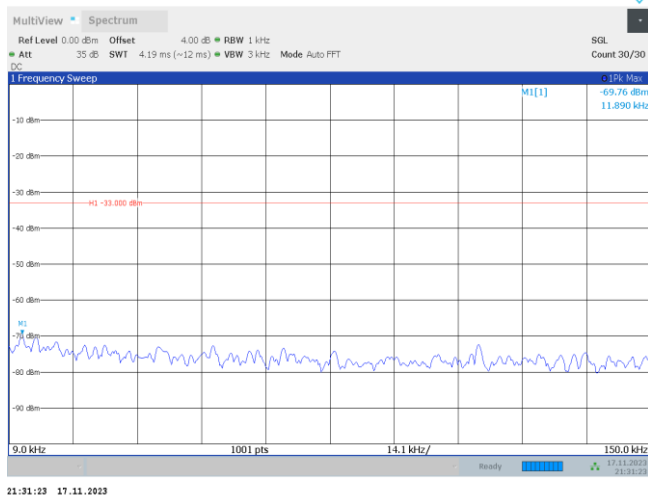


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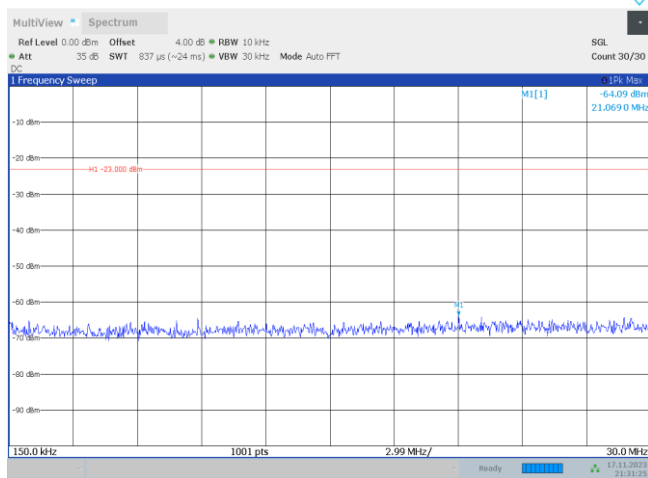
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



21:31:23 17.11.2023

Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



21:31:24 17.11.2023



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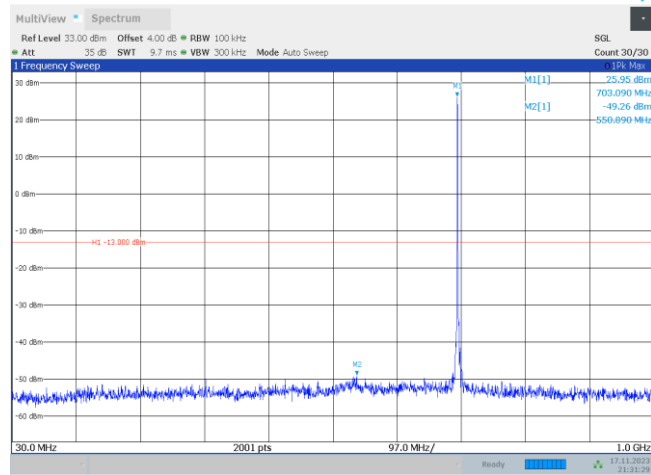
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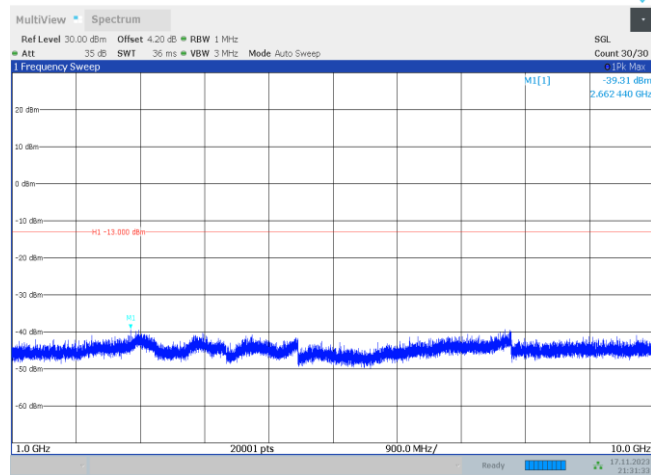


Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



21:31:30 17.11.2023

Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



21:31:34 17.11.2023



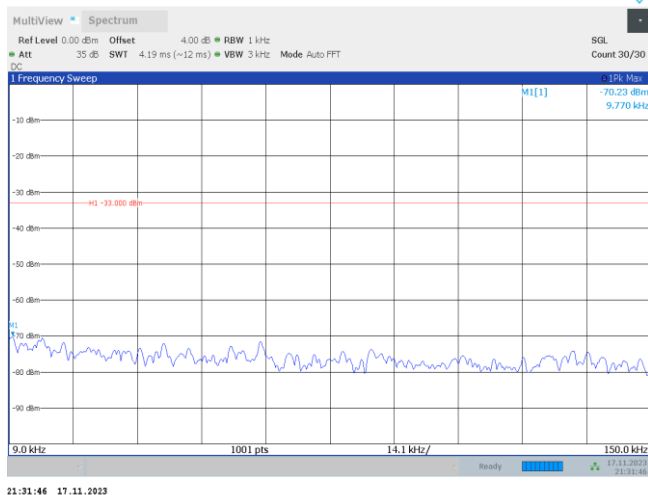
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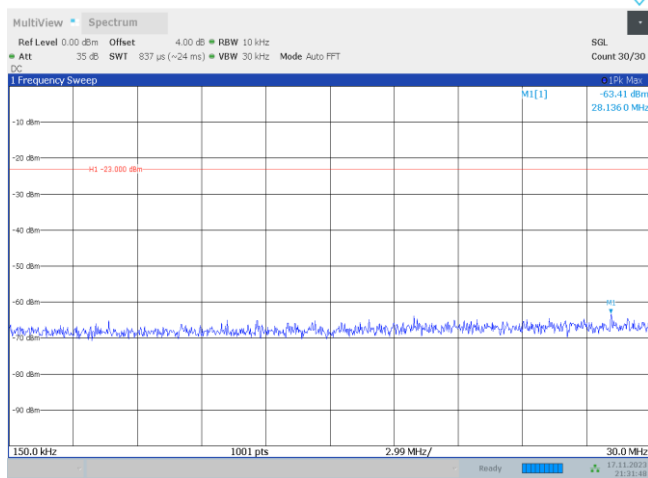
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



21:31:46 17.11.2023

Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



21:31:49 17.11.2023

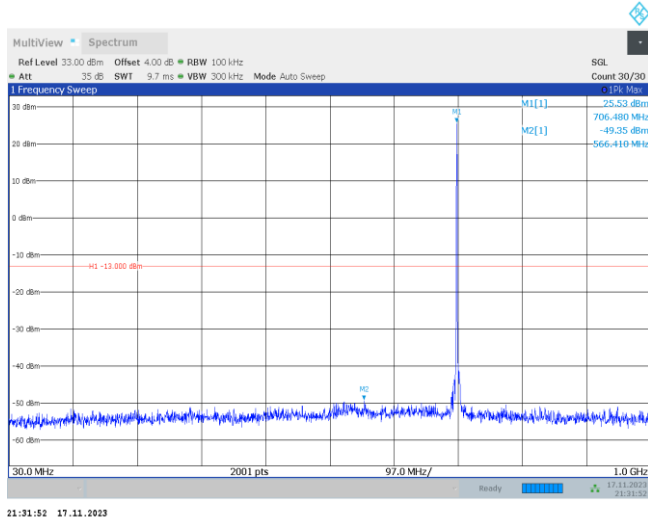


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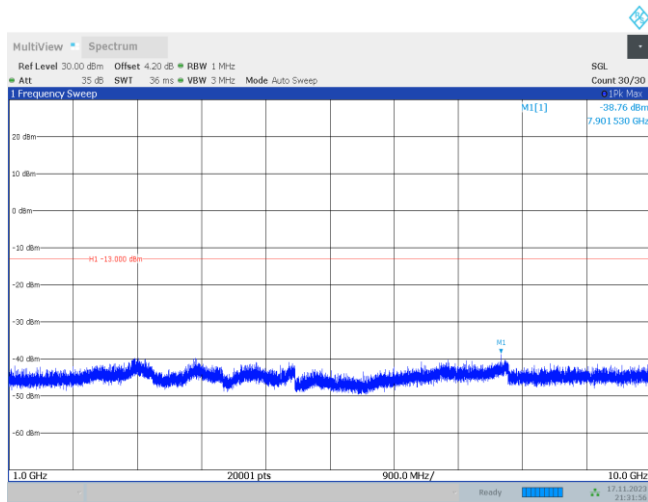
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



21:31:52 17.11.2023

Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



21:31:57 17.11.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band12\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	41.64	-48.00	25.10	-76.52	-13.00	63.52	Horizontal
2	2098.7700	41.38	-47.71	26.18	-75.42	-13.00	62.42	Horizontal
3	2798.3600	40.58	-46.92	27.90	-73.70	-13.00	60.70	Horizontal
4	3497.9500	41.31	-46.54	28.60	-71.89	-13.00	58.89	Horizontal
5	4197.5400	38.89	-45.96	29.57	-72.75	-13.00	59.75	Horizontal
6	4897.1300	40.63	-45.58	31.17	-69.04	-13.00	56.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	42.82	-48.00	25.10	-75.34	-13.00	62.34	Vertical
2	2098.7700	42.18	-47.71	26.18	-74.62	-13.00	61.62	Vertical
3	2798.3600	41.47	-46.92	27.90	-72.81	-13.00	59.81	Vertical
4	3497.9500	41.59	-46.54	28.60	-71.61	-13.00	58.61	Vertical
5	4197.5400	39.69	-45.96	29.57	-71.95	-13.00	58.95	Vertical
6	4897.1300	40.42	-45.58	31.17	-69.25	-13.00	56.25	Vertical



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**Test Band = LTE Band12\_ TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	39.91	-48.02	25.10	-78.27	-13.00	65.27	Horizontal
2	2109.2700	41.27	-47.71	26.21	-75.49	-13.00	62.49	Horizontal
3	2812.3600	39.94	-46.88	27.93	-74.27	-13.00	61.27	Horizontal
4	3515.4500	40.61	-46.51	28.62	-72.54	-13.00	59.54	Horizontal
5	4218.5400	38.76	-45.93	29.63	-72.80	-13.00	59.80	Horizontal
6	4921.6300	40.70	-45.63	31.23	-68.96	-13.00	55.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	44.18	-48.02	25.10	-74.00	-13.00	61.00	Vertical
2	2109.2700	41.88	-47.71	26.21	-74.88	-13.00	61.88	Vertical
3	2812.3600	42.16	-46.88	27.93	-72.05	-13.00	59.05	Vertical
4	3515.4500	42.23	-46.51	28.62	-70.92	-13.00	57.92	Vertical
5	4218.5400	40.71	-45.93	29.63	-70.85	-13.00	57.85	Vertical
6	4921.6300	41.07	-45.63	31.23	-68.59	-13.00	55.59	Vertical



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**Test Band = LTE Band12\_ TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	39.86	-48.04	25.11	-78.34	-13.00	65.34	Horizontal
2	2119.7700	40.00	-47.70	26.24	-76.73	-13.00	63.73	Horizontal
3	2826.3600	40.14	-46.83	27.95	-73.99	-13.00	60.99	Horizontal
4	3532.9500	40.21	-46.47	28.63	-72.89	-13.00	59.89	Horizontal
5	4239.5400	39.24	-45.89	29.68	-72.23	-13.00	59.23	Horizontal
6	4946.1300	40.13	-45.69	31.28	-69.53	-13.00	56.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	43.68	-48.04	25.11	-74.52	-13.00	61.52	Vertical
2	2119.7700	42.67	-47.70	26.24	-74.06	-13.00	61.06	Vertical
3	2826.3600	42.10	-46.83	27.95	-72.03	-13.00	59.03	Vertical
4	3532.9500	41.29	-46.47	28.63	-71.81	-13.00	58.81	Vertical
5	4239.5400	40.04	-45.89	29.68	-71.43	-13.00	58.43	Vertical
6	4946.1300	40.69	-45.69	31.28	-68.97	-13.00	55.97	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	2.70	0.003816	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	1.70	0.002403	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-1.10	-0.001555	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.80	-0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.60	-0.000848	PASS

---End of Attachment---



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